

Phospho-p38 MAP Kinase Polyclonal Antibody

CATALOG #: 3438-100

AMOUNT: 100 µg

LOT #: _____

HOST: Rabbit

IMMUNOGEN: Synthetic phospho-peptide surrounding amino acid Thr180/Tyr182 of human p38 MAP kinase.

SPECIES REACTIVITY: human, mouse, rat

FORMULATION:

100 µg (0.5 mg/ml) affinity purified rabbit polyclonal antibody in phosphate-buffered saline (PBS) containing 50% glycerol, 1% BSA, and 0.02% thimerosal.

STORAGE CONDITIONS:

Store at -20°C. For long term storage, aliquot and freeze at -70°C. Avoid repeated freeze/thaw cycles.

BACKGROUND:

p38 MAP kinase is the mammalian homologue of the yeast HOG kinase and participates in a cascade controlling cellular responses to cytokines and stress. Like the SAPK/JNK pathway, p38 MAP kinase is activated by a variety of cellular stresses including inflammatory cytokines, UV light and growth factors, etc. Activated p38 MAP kinase has been shown to phosphorylate and activate MAPKAP kinase-2 and to phosphorylate the transcription factors ATF-2 and Max.

SPECIFICITY:

The antibody recognizes 43 kDa phosphorylated p38 (Thr180/Tyr182) MAP kinase of human, mouse, and rat origins. Reactivity to other species has not been tested.

APPLICATION:

The antibody can be used in Western blotting (0.5-4 µg/ml), immunoprecipitation (10-20 mg/ml) and immunohistochemistry (10-20 µg/ml). However, the optimal concentrations should be determined individually.



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Western blot analysis of extracts from 0.5 hr (Left lane) and 1 hr (Right lane) UV treated 3T3 cells.

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